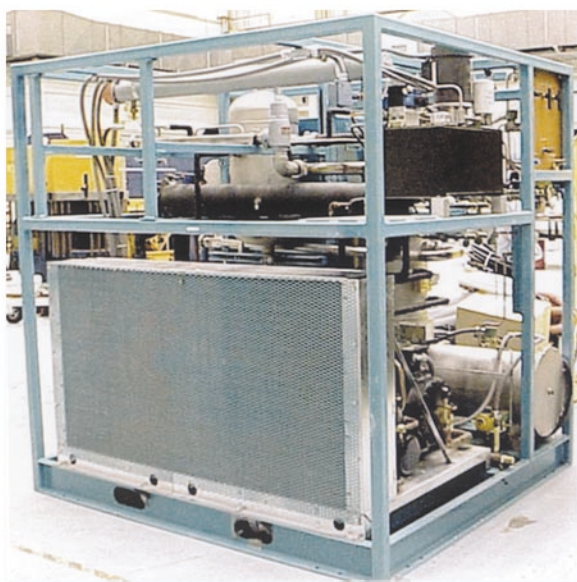




PD01-0533-02



PD01-0533-01

## TMI Remote Assay System

### ***Problem***

The INEEL's Three Mile Island (TMI) spent fuel transfer project needed to characterize spent nuclear fuel debris to determine its fissile material content.

### ***Baseline Technology***

Physical sampling and destructive analysis to determine fissile material content.

### ***Innovative Technology***

The TMI Remote Assay System uses a gamma-ray spectrometer to non-destructively determine fissile material content.

### ***Comparison***

This system avoids sample collection and shipment of samples off-site for destructive analysis.

### ***Benefits***

This system enabled the project to reduce worker exposure by not collecting and preparing physical samples for analysis, and by accelerating spent fuel transfers.

